

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/568,055
Source: IFWP
Date Processed by STIC: 4/5/07

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 04/05/2007

PATENT APPLICATION: US/10/568,055

TIME: 07:49:03

Input Set : A:\10.568055 Seq List.txt

Output Set: N:\CRF4\04052007\J568055.raw

3 <110> APPLICANT: Cambridge University Technical Services Limited
 4 Doherty, Aidan
 5 Della, Marina
 6 Weller, Geoffrey
 7 Jackson, Stephen
 9 <120> TITLE OF INVENTION: Prokaryotic DNA Repair Ligases
 11 <130> FILE REFERENCE: 6947-73362-01
 13 <140> CURRENT APPLICATION NUMBER: US 10/568,055
 14 <141> CURRENT FILING DATE: 2006-02-10
 16 <150> PRIOR APPLICATION NUMBER: PCT/GB2004/003349
 17 <151> PRIOR FILING DATE: 2004-08-02
 19 <150> PRIOR APPLICATION NUMBER: US 60/494,088
 20 <151> PRIOR FILING DATE: 2003-08-12
 22 <160> NUMBER OF SEQ ID NOS: 90
 24 <170> SOFTWARE: PatentIn version 3.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 10
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Artificial sequence
 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: Conserved motif
 W--> 33 <400> SEQUENCE: 1
 34 Arg Leu Val Phe Asp Leu Asp Pro Gly Glu
 35 1 5 10
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 10
 39 <212> TYPE: PRT
 40 <213> ORGANISM: Artificial sequence
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: Conserved motif
 W--> 44 <400> SEQUENCE: 2
 45 Ser Gly Ser Lys Gly Leu His Leu Tyr Thr
 46 1 5 10
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 6
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Artificial sequence
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: Conserved motif
 W--> 55 <400> SEQUENCE: 3
 56 Lys Val Phe Val Asp Trp
 57 1 5
 59 <210> SEQ ID NO: 4

see p. 6

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60 <211> LENGTH: 20
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Primer
W--> 66 <400> SEQUENCE: 4
67 atgcgagcca ttgacggg 20
69 <210> SEQ ID NO: 5
70 <211> LENGTH: 25
71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Primer
W--> 76 <400> SEQUENCE: 5
77 ggatcctcac ggagcggtg ggacg 25
79 <210> SEQ ID NO: 6
80 <211> LENGTH: 20
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Primer
W--> 86 <400> SEQUENCE: 6
87 atgggttcgg cgtcggagca 20
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 26
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Primer
W--> 96 <400> SEQUENCE: 7
97 tcctcattcg cgcaccct cactgg 26
99 <210> SEQ ID NO: 8
100 <211> LENGTH: 15
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Oligonucleotide
W--> 106 <400> SEQUENCE: 8
107 ctgcagctga tgcgc 15
109 <210> SEQ ID NO: 9
110 <211> LENGTH: 20
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Oligonucleotide
W--> 116 <400> SEQUENCE: 9
117 atccggcgca tcagctgcag 20
119 <210> SEQ ID NO: 10
120 <211> LENGTH: 25

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121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Oligonucleotide
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127 agtcgatcct gcgcatcatc tgcag 25
129 <210> SEQ ID NO: 11
130 <211> LENGTH: 41
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Oligonucleotide
W--> 136 <400> SEQUENCE: 11
137 acccggggat ccgtacagtc tatccggcgc atcagctgca g 41
139 <210> SEQ ID NO: 12
140 <211> LENGTH: 50
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: 50mer substrate
W--> 146 <400> SEQUENCE: 12
147 gtaacaaagt ttggattgct actgaccgct ctcgtgctcg tcgctgcgtt 50
149 <210> SEQ ID NO: 13
150 <211> LENGTH: 50
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Oligonucleotide
W--> 156 <400> SEQUENCE: 13
157 gtctgtctca ctattagaac cctttagagt catgcgtcgc gaggcaacgc 50
159 <210> SEQ ID NO: 14
160 <211> LENGTH: 43
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Oligonucleotide
W--> 166 <400> SEQUENCE: 14
167 gcctcgcgac gcatgactct aaagggttct aatagtgaga cag 43
169 <210> SEQ ID NO: 15
170 <211> LENGTH: 41
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Oligonucleotide
W--> 176 <400> SEQUENCE: 15
177 gcgacgagca cgagagcggc cagtagcaat ccaaactttg t 41
179 <210> SEQ ID NO: 16
180 <211> LENGTH: 50
181 <212> TYPE: DNA

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182 <213> ORGANISM: Artificial sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Oligonucleotide
W--> 186 <400> SEQUENCE: 16
187 gtaacaaagt ttggattgct actgaccgct ctcgtgctcg tcgctgcgtt      50
189 <210> SEQ ID NO: 17
190 <211> LENGTH: 52
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Oligonucleotide
W--> 196 <400> SEQUENCE: 17
197 ctgtctgtct cactattaga accctttaga gtcatgcgctc gcgaggcaac gc      52
199 <210> SEQ ID NO: 18
200 <211> LENGTH: 20
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial sequence
204 <220> FEATURE:
206 <223> OTHER INFORMATION: Oligonucleotide
W--> 207 <400> SEQUENCE: 18
208 gaaaccacgt accggcgtgt      20
210 <210> SEQ ID NO: 19
211 <211> LENGTH: 13
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Oligonucleotide
W--> 217 <400> SEQUENCE: 19
218 ctttggtcga tgg      13
220 <210> SEQ ID NO: 20
221 <211> LENGTH: 26
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Oligonucleotide
W--> 227 <400> SEQUENCE: 20
228 ctgcagatca tgcgccgat tgcccc      26
230 <210> SEQ ID NO: 21
231 <211> LENGTH: 17
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Oligonucleotide
W--> 237 <400> SEQUENCE: 21
238 gacgtctagt acgcggc      17
240 <210> SEQ ID NO: 22
241 <211> LENGTH: 20
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial sequence

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Input Set : A:\10.568055 Seq List.txt

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245 <220> FEATURE:
246 <223> OTHER INFORMATION: Primer
W--> 247 <400> SEQUENCE: 22
248 caagtatgga tctcgaggtt 20
250 <210> SEQ ID NO: 23
251 <211> LENGTH: 20
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Primer
W--> 257 <400> SEQUENCE: 23
258 ctgttctaga ggtacctagt 20
260 <210> SEQ ID NO: 24
261 <211> LENGTH: 20
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Primer
W--> 267 <400> SEQUENCE: 24
268 ccttaagttg aacggagtcc 20
270 <210> SEQ ID NO: 25
271 <211> LENGTH: 20
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Primer
W--> 277 <400> SEQUENCE: 25
278 cttgactagc gcactaccag 20
280 <210> SEQ ID NO: 26
281 <211> LENGTH: 21
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Primer
W--> 287 <400> SEQUENCE: 26
288 ggcaggagaa ttttcagcat c 21
290 <210> SEQ ID NO: 27
291 <211> LENGTH: 8
292 <212> TYPE: PRT
293 <213> ORGANISM: Bacillus subtilis
295 <400> SEQUENCE: 27
296 Glu Val Lys Tyr Asp Gly Tyr Arg
297 1 5
299 <210> SEQ ID NO: 28
300 <211> LENGTH: 8
301 <212> TYPE: PRT
302 <213> ORGANISM: Bacillus subtilis
304 <400> SEQUENCE: 28
305 Leu Thr Leu Asp Gly Glu Ile Val

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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 04/05/2007

PATENT APPLICATION: US/10/568,055

TIME: 07:49:04

Input Set : A:\10.568055 Seq List.txt

Output Set: N:\CRF4\04052007\J568055.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:62; Xaa Pos. 2,5

Seq#:63; Xaa Pos. 1,2,5,6

Seq#:64; Xaa Pos. 1,4

Seq#:65; Xaa Pos. 3,4,5

VERIFICATION SUMMARY

DATE: 04/05/2007

PATENT APPLICATION: US/10/568,055

TIME: 07:49:04

Input Set : A:\10.568055 Seq List.txt

Output Set: N:\CRF4\04052007\J568055.raw

L:33 M:283 W: Missing Blank Line separator, <400> field identifier
L:44 M:283 W: Missing Blank Line separator, <400> field identifier
L:55 M:283 W: Missing Blank Line separator, <400> field identifier
L:66 M:283 W: Missing Blank Line separator, <400> field identifier
L:76 M:283 W: Missing Blank Line separator, <400> field identifier
L:86 M:283 W: Missing Blank Line separator, <400> field identifier
L:96 M:283 W: Missing Blank Line separator, <400> field identifier
L:106 M:283 W: Missing Blank Line separator, <400> field identifier
L:116 M:283 W: Missing Blank Line separator, <400> field identifier
L:126 M:283 W: Missing Blank Line separator, <400> field identifier
L:136 M:283 W: Missing Blank Line separator, <400> field identifier
L:146 M:283 W: Missing Blank Line separator, <400> field identifier
L:156 M:283 W: Missing Blank Line separator, <400> field identifier
L:166 M:283 W: Missing Blank Line separator, <400> field identifier
L:176 M:283 W: Missing Blank Line separator, <400> field identifier
L:186 M:283 W: Missing Blank Line separator, <400> field identifier
L:196 M:283 W: Missing Blank Line separator, <400> field identifier
L:207 M:283 W: Missing Blank Line separator, <400> field identifier
L:217 M:283 W: Missing Blank Line separator, <400> field identifier
L:227 M:283 W: Missing Blank Line separator, <400> field identifier
L:237 M:283 W: Missing Blank Line separator, <400> field identifier
L:247 M:283 W: Missing Blank Line separator, <400> field identifier
L:257 M:283 W: Missing Blank Line separator, <400> field identifier
L:267 M:283 W: Missing Blank Line separator, <400> field identifier
L:277 M:283 W: Missing Blank Line separator, <400> field identifier
L:287 M:283 W: Missing Blank Line separator, <400> field identifier
L:612 M:283 W: Missing Blank Line separator, <220> field identifier
L:623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:633 M:283 W: Missing Blank Line separator, <220> field identifier
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:659 M:283 W: Missing Blank Line separator, <220> field identifier
L:670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:681 M:283 W: Missing Blank Line separator, <220> field identifier
L:687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
L:878 M:283 W: Missing Blank Line separator, <400> field identifier
L:888 M:283 W: Missing Blank Line separator, <400> field identifier
L:898 M:283 W: Missing Blank Line separator, <400> field identifier
L:908 M:283 W: Missing Blank Line separator, <400> field identifier
L:918 M:283 W: Missing Blank Line separator, <400> field identifier